PATENT & TRANSPORT

FIGURE 1

FA RICINOLEATE

Step # 1: Esterification

TEA RICINOLEIC ACID

TEA RICINOLEATE



FIGURE 2

JIRICINOLEATE / IPDI COPOLYMER POLYDERM PPI-TEA

Step # 2

HO (C₂H₄)N
$$\begin{pmatrix} C_{2}H_{4}O - C - (CH_{2})_{10} - C - R_{6} \\ + CH_{3} \end{pmatrix} + CH_{3} \begin{pmatrix} CH_{3} & N = C = 0 \\ + CH_{3} \end{pmatrix} - CH_{2} - N = C = 0 \\ C_{2}H_{4}O - C - (CH_{2})_{10} - C - R_{6} \end{pmatrix}$$

TEA RICINOLEATE

IPDI

FIGURE 3

ICINOLEATE / IPDI COPOLYMER / DES DERMOQUAT TEA DIR

Step #3

$$\begin{bmatrix} R_6 & C_{2H_4} & R_6 & D & H \\ C_{2H_4} & C_{2H_4} & -C_{-C_10} - C_{-C_10} - C_{-C_10$$